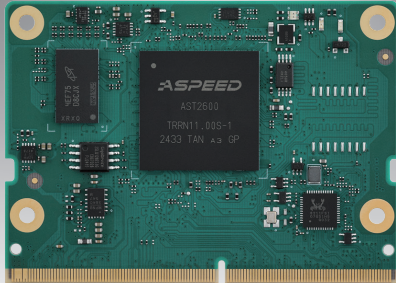


# SOM-RM10

## ASPEED AST2600 OCP RunBMC v1.5 BMC module



### Features

- OCP RunBMCv1.5
- ASPEED 7th Gen AST2600 Server Management Processor
- Up to 2GB DDR4 on-board, 128MB SPI flash on-board
- 1GbE LAN for mainly connectivity & VGA 800x600 for easier on-site debug
- Share NIC & Dedicate LAN configurable
- Flexible I/O including I2C, ADC, PWM & GPIO
- Ready to use BMC FW & customized service

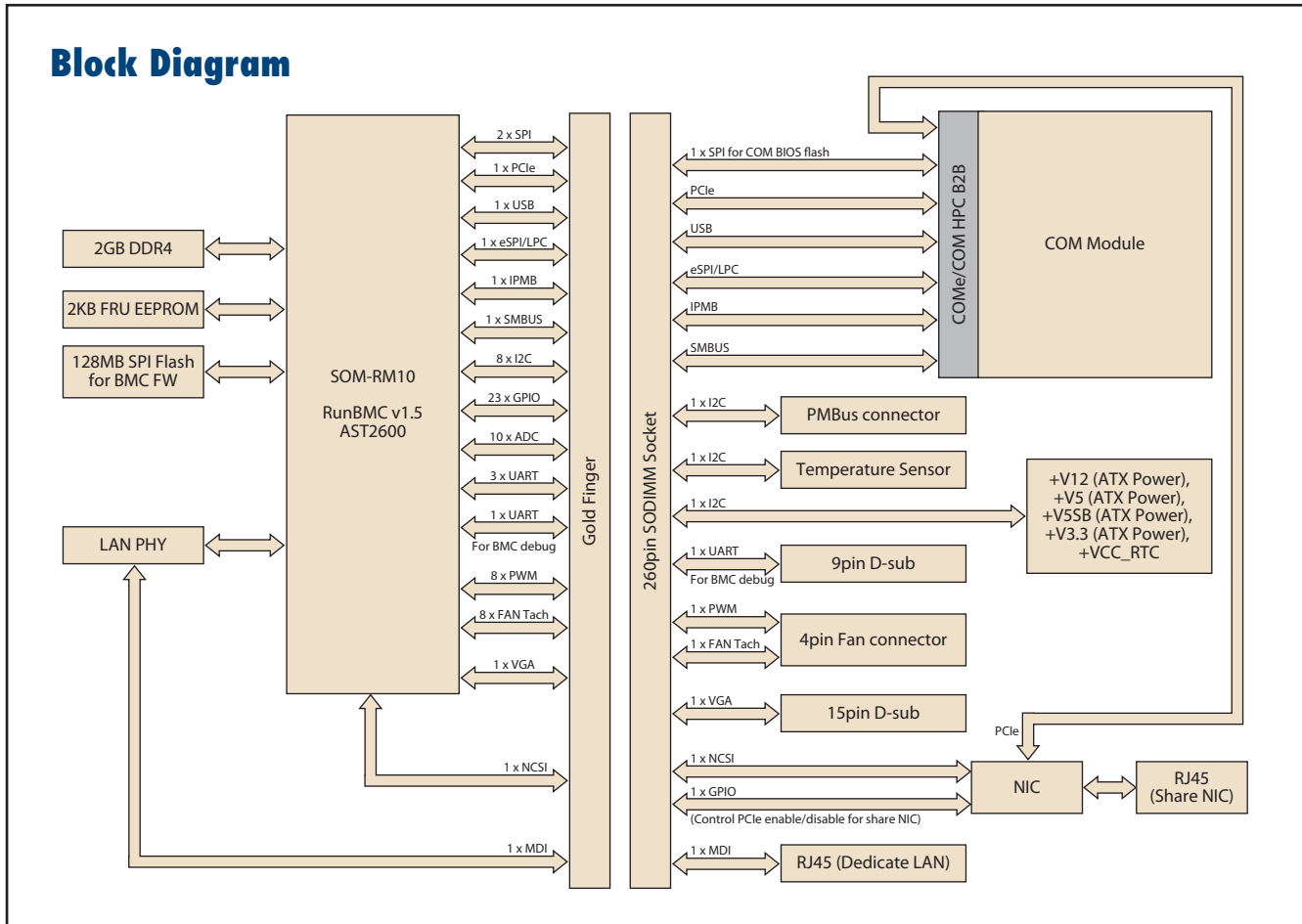
#### Software APIs:



### Specifications

Form Factor	Form Factor	OCP RunBMC v1.5 - Large Size
	Pin-out Type	OCP RunBMC v1.5
Processor System	Mainchip	AST2600
	Cores	2
	FRU Size	2KB
	BMC Flash Size	128MB
Memory	Technology	DDR4
	Speed	3200 MT/s
	Max. Capacity	Up to 2GB
Display	VGA	800x600 @60Hz VBIOS on SOM-RM10
Ethernet	Gigabit	RTL8211FSI-CG, Speed: 10M/100M/1G (Through MDI)
I/O	SPI	2 (1 for Main system BIOS flash)
	I2C	8
	GPIO	23
	ADC	10
	PWM	8
	Fan TACH	8
	UART	4 (1 for BMC debug)
	NCSI	1
Power	Type	ATX: Vin; AT: Vin
	Supply Voltage	Vin: 12V
Environment	Operating Temperature	Standard: 0 ~ 60 °C (32 ~ 140 °F)
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	Operating: 40 °C@95% relative humidity, non-condensing Storage: 60 °C@95% relative humidity, non-condensing
	Vibration Resistance	3.5 Grms
Mechanical	Dimensions	69.6 mm x 50 mm (2.74" x 1.97")

## Block Diagram



## Ordering Information

Part No.	Main Chip	Memory	I2C	ADC	PWM	GPIO	Thermal Solution	Operating Temp.
SOM-RM10-00A1	AST2600	2GB	8	10	8	23	Passive	0-60°C

Any other SKUs or combination is project based support. Please contact sales for details.

## Development Board

Part No.	Description
SOM-DH7000-00A2	COM-HPC Size E Extension Dev. Board A2

Any other carrier board, please contact Advantech for further support.

## Option Accessories

Part No.	Description
1970006184T001	Heatsink

## Packing List

Part No.	Description	Quantity
-	SOM-RM10 BMC module	1

## BMC Firmware

Description	Note
Advantech OpenBMC	Please contact Advantech